

IN THE SPECIFICATION:

Please replace the paragraph starting on page 10, line 17 with the following:

The reactor vessel includes an inlet port 70 in fluid communication with the pressure chamber 26 (Figs. 2 and 6). A quick release fitting 72 is preferably coupled to the inlet port 70 for attaching the port to a flexible hose or rigid tube (not shown) connected to a pressure supply device. The flexible hose or rigid gas supply tube may also be left connected and the fill valve open during an experiment. If a vacuum is to be applied to the chamber 26, a vacuum supply device may also be attached to the pressure port 70 or another inlet port on the reactor vessel. A fill valve 74 is attached to the inlet port to control the application of pressure to the vessel. The fill valve 74 may have a manual or electronic pressure control valve. A pressure sensor (not shown) may be inserted inline with the fill valve 74 or inserted into the pressure chamber 26 or one or more of the reaction wells 30 to monitor the pressure within the vessel. The inlet supply system may allow for a series of purging, venting, or pressurization cycles, with one or more gases or with vacuum without disconnecting the supply lines. The pressure source may be an inert gas such as nitrogen, argon, helium, carbon dioxide, or air, or a reactive gas such as hydrogen, oxygen, hydrogen chloride, or ammonia. Mixtures of gases may also be used. The reactor vessel further includes an opening for a pressure release valve 78 to prevent over pressurization of the vessel.

Please replace the Abstract of the Disclosure with the following:

An apparatus for use in parallel reaction of materials is disclosed. The apparatus includes a base having a plurality of reaction wells, each of the reaction wells having a closed lower end and open upper end for receiving reactant materials. A cover is configured for sealing engagement with the base to form a housing enclosing the plurality of reaction wells and defining a common pressure chamber in